



Use Case: Planning to Planning

Summary:

The planning administrator updates the CIM data repository with new planning data. The planning administrator can then use the updated data when building base cases in the case configurator. Once the base cases have been created, a planning user can build study cases in the case configurator. The base cases and study cases can be exported to either PSLF or PSS/E if the planning user wishes.

Actors(s):

Name	Acronym	Role description
Planning Admin	PlngAdmin	Updates the CIM data repository with new planning data and builds the base cases.
Planning User	PlngUser	Builds study cases.

Participating System(s):

System	Acronym	Services/Information provided
Case Configurator	CaseCnfg	Contains base cases and information needed to generate study cases.
CIM Data Repository	Repository	Contains generator, reactive equipment, load, dynamic, topological, line and transformer data.
CIM Data Repository Client	RClient	User interface to the CIM data repository.
Line database	LDB	Database containing line information.
PSLF or PSS/E	PFSolver	Solves power flow.
Transformer database	TDB	Database containing transformer information.

Triggers:

- PlngAdmin enters planning data into LDB, TDB or directly into the Repository.

Normal Sequence:

Step	Description	From – To	Information Exchanged
1a	PlngAdmin enters data into LDB.	PlngAdmin – LDB	Line data.
1b	PlngAdmin enters data into TDB.	PlngAdmin – TDB	Transformer data.
2a	An event trigger or schedule updates the Repository with the new line and transformer data.	LDB, TDB – Repository	Line and transformer data.
2b	PlngAdmin enters data into the Repository using RClient.	PlngAdmin – Repository	Other planning data.
3	CaseCnfg is updated with data from the Repository.	Repository – CaseCnfg	Model data.
4	PlngAdmin builds a base case using CaseCnfg; base cases are available for PlngUser to use.	PlngAdmin – CaseCnfg	Base case.
5	PlngUser builds a study case using CaseCnfg.	PlngUser – CaseCnfg	Study case.
6	Base cases and study cases are exported to a PFSolver for PlngUser to use.	CaseCnfg – PFSolver	Base cases and study cases.

Post-conditions:

- CaseCnfg has been updated with base cases and study cases which were built using up-to-date data from the Repository.

Issues:

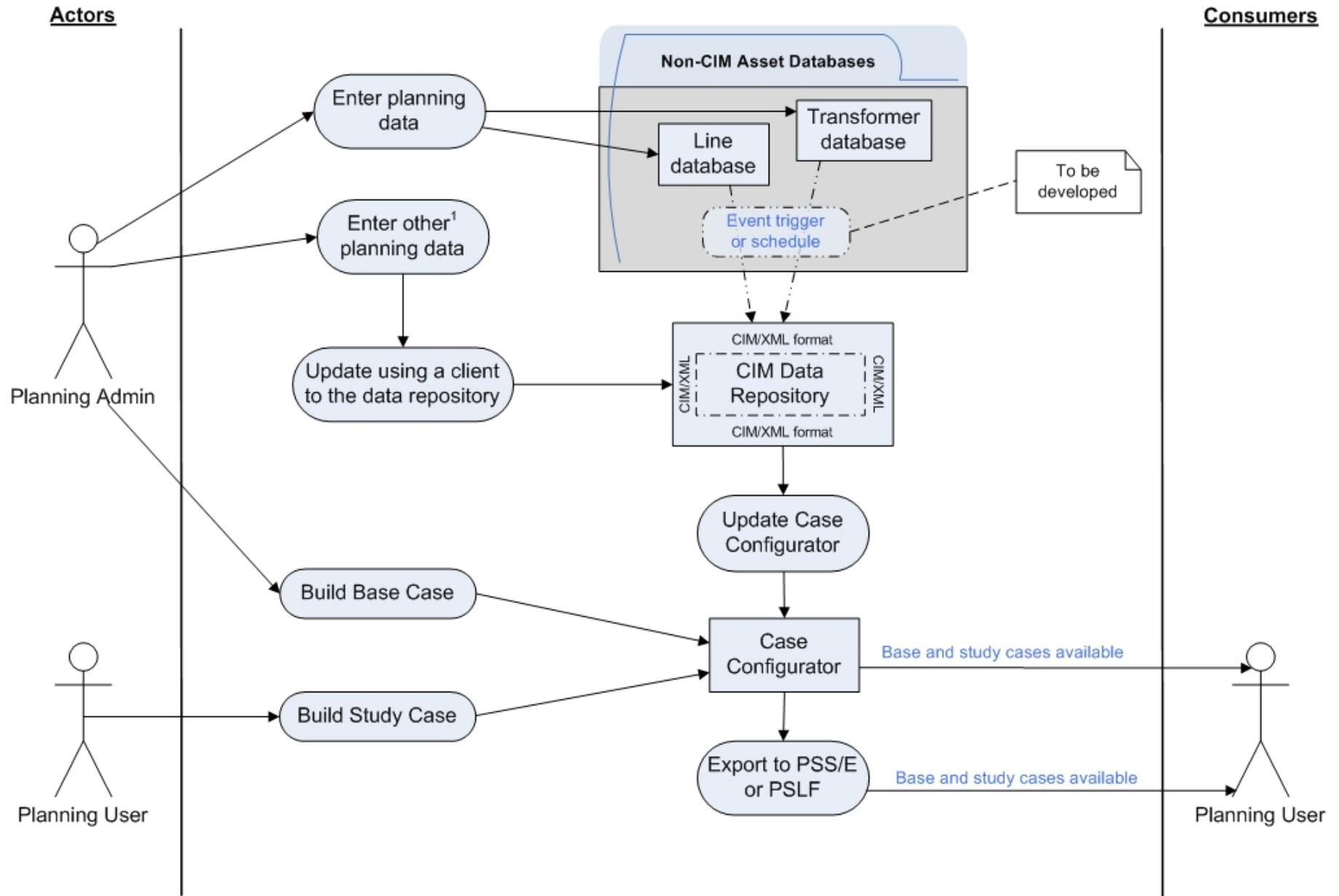
ID	Description	Status
1		



--	--	--

Revision History:

No	Date	Author	Description
1	2006-12-04	J. Ho	High-level draft.
2	2006-12-04	J. Ho	Normal sequence. Attached diagram.



1. Generator, Reactive Equipment, Load, Dynamic